Task card 1 Writing a Linear Function from a W...

A tank holds 468 liters of water and drains 6 liters every minute. Write an equation for y, the water left in liters, after x minutes.

Task card 2 Writing a Linear Function from a W...

A gift card has $63 on it, and each coffee bought costs $4. Write an equation for y, the money left on the card in dollars, after x coffees.

Task card 3 Writing a Linear Function from a W...

A plane is flying at 3220 meters and comes down 266 meters every minute. Write an equation for y, the plane's height in meters, after x minutes.

Task card 4 Writing a Linear Function from a W...

Sam has $148 saved and adds $12 every week. Write an equation for y, the amount saved in dollars, after x weeks.

Task card 5 Writing a Linear Function from a W...

A phone battery is at 94% and loses 8% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 6 Writing a Linear Function from a W...

A plane is flying at 4711 meters and comes down 207 meters every minute. Write an equation for y, the plane's height in meters, after x minutes.

Task card 7 Writing a Linear Function from a W...

A tank holds 487 liters of water and drains 7 liters every minute. Write an equation for y, the water left in liters, after x minutes.

Task card 8 Writing a Linear Function from a W...

Sam has $129 saved and adds $17 every week. Write an equation for y, the amount saved in dollars, after x weeks.

Task card 9 Writing a Linear Function from a W...

A tank holds 448 liters of water and drains 12 liters every minute. Write an equation for y, the water left in liters, after x minutes.

Task card 10 Writing a Linear Function from a W...

A phone battery is at 97% and loses 3% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 11 Writing a Linear Function from a W...

A candle is 30 cm tall and burns down 3 cm every hour. Write an equation for y, the height of the candle in cm, after x hours.

Task card 12 Writing a Linear Function from a W...

A sunflower is 21 cm tall and grows 5 cm every week. Write an equation for y, the height of the sunflower in cm, after x weeks.

Task card 13 Writing a Linear Function from a W...

A tank holds 521 liters of water and drains 14 liters every minute. Write an equation for y, the water left in liters, after x minutes.

Task card 14 Writing a Linear Function from a W...

A phone battery is at 97% and loses 5% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 15 Writing a Linear Function from a W...

A phone battery is at 100% and loses 6% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 16 Writing a Linear Function from a W...

A gym charges a $30 sign-up fee plus $22 per month. Write an equation for y, the total cost in dollars, after x months.

Task card 17 Writing a Linear Function from a W...

A phone battery is at 90% and loses 3% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 18 Writing a Linear Function from a W...

A gift card has $60 on it, and each coffee bought costs $6. Write an equation for y, the money left on the card in dollars, after x coffees.

Task card 19 Writing a Linear Function from a W...

A phone battery is at 94% and loses 7% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 20 Writing a Linear Function from a W...

A plumber charges $78 for a visit plus $37 per hour. Write an equation for y, the charge in dollars, after x hours.

Task card 21 Writing a Linear Function from a W...

A plane is flying at 5287 meters and comes down 221 meters every minute. Write an equation for y, the plane's height in meters, after x minutes.

Task card 22 Writing a Linear Function from a W...

A phone battery is at 98% and loses 9% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 23 Writing a Linear Function from a W...

A phone battery is at 99% and loses 9% every hour. Write an equation for y, the battery level in percent, after x hours.

Task card 24 Writing a Linear Function from a W...

Sam has $75 saved and adds $10 every week. Write an equation for y, the amount saved in dollars, after x weeks.

Writing a Linear Function from a Word Problem Task Cards

Recording sheet · Grade 8 · Write an equation in the form y = mx + b for each situation.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Writing a Linear Function from a Word Problem Task Cards: Answer Key

Grade 8 · Medium

The answers online

1. y = -6x + 468	**2.** y = -4x + 63	**3.** y = -266x + 3220
4. y = 12x + 148	**5.** y = -8x + 94	**6.** y = -207x + 4711
7. y = -7x + 487	**8.** y = 17x + 129	**9.** y = -12x + 448
10. y = -3x + 97	**11.** y = -3x + 30	**12.** y = 5x + 21
13. y = -14x + 521	**14.** y = -5x + 97	**15.** y = -6x + 100
16. y = 22x + 30	**17.** y = -3x + 90	**18.** y = -6x + 60
19. y = -7x + 94	**20.** y = 37x + 78	**21.** y = -221x + 5287
22. y = -9x + 98	**23.** y = -9x + 99	**24.** y = 10x + 75